

Application Serial No. 10/706,979
Office Action mailed July 28, 2006

Attorney Docket No.12361-223

In the Claims:

This listing replaces all previous versions and listings of claims in the application.

1. (Currently Amended) A dual flow convection oven comprising:
 - an insulated housing,
 - a heat conducting liner disposed within said housing and spaced away from walls thereof defining a cooking cavity of said oven, said liner having rear and side walls and a top wall and a bottom wall, said rear wall having a port therethrough, wherein the liner is configured so that products of combustion enter the cooking chamber through said port only after traversing past said rear wall, substantially an entire length of said top wall, and said side wall an outside of at least two additional walls of said liner;
 - a gas burner disposed adjacent one of said walls between said housing and said liner for expelling the products of combustion into a space between said liner and housing;
 - a squirrel cage fan mounted within said liner across the port in said rear wall, said fan mounting an internal concave plate on one side of said fan and adjacent the port in said back wall; and
 - a baffle and guard assembly including a plate having a circular opening disposed in front of between said cooking cavity and said fan and said opening being coaxial with said fan and a pair of diverter plates extending from said plate toward said liner rear back wall covering only a portion of a circumference of said fan whereby heated air passing through the port and through the opening will be mixed and expelled by said fan into the cooking cavity.
2. (Original) The oven of claim 1 wherein said diverter plates are disposed at about two and eight o'clock around opening in said plate.
3. (Previously Presented) The oven of claim 1 wherein a pathway around the space between the rear, side, top, and bottom walls of said liner is defined between said liner and housing, said pathway configured for products of combustion to circulate through said pathway to heat said liner walls to generate radiant heat in said cavity.

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4. (Currently Amended) The oven of claim 3 wherein the pathway adjacent the port in said back rear wall is unobstructed.

5. (Original) The oven of claim 1 wherein the opening in said plate has a mesh guard thereacross.

6. (Previously Presented) The oven of claim 3 wherein plates are not more than about three inches across.

7. (Previously Presented) The oven of claim 1 wherein said burner includes at least one in-shot burner.

8. (Previously Presented) The oven of claim 7 further comprising: a burner control for selectively changing a maximum heat energy of said combustion from a first to a second value.

9. (Original) The oven of claim 8 wherein said first value is 60,000 BTUs and said second value is 80,000 BTUs.

10. (Previously Presented) The oven of claim 7 wherein the burner comprises four burners.

11. (Previously Presented) The oven of Claim 1, wherein the squirrel cage fan and the internal concave plate are configured for separate intakes of the products of combustion and air from the cooking cavity.